The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Amended) In a heat exchanger comprising at least one heat exchanger block, an insulating vessel which surrounds the heat exchanger block, pipes connected to said heat exchanger block for transporting fluids to and from said heat exchanger block, and securing means for securing the heat exchanger block hanging in the insulating vessel, the improvement wherein the heat exchanger block (1) is arranged movably in the insulating vessel whereby said means for securing permit thermally produced changes in the lengths of said pipes connected to said heat exchange block to ~~can~~ be compensated for by movement of said heat exchanger block.

2. (Previously Amended) A heat exchanger according to Claim 1, wherein said heat exchanger block having a lower end and wherein, the lower end of the heat exchanger block (1) can move in at least two spatial directions.

3. (Previously Amended) A heat exchanger according to Claim 1, wherein the heat exchanger block (1) is suspended in such a manner that it can move freely above its center of gravity.

4. (Previously Amended) A heat exchanger according to Claim 1, wherein the heat exchanger comprises at least two, heat exchanger blocks (1).

5. (Previously Amended) A heat exchanger according to Claim 4, wherein the heat exchanger blocks (1) have feed and/or discharge lines which lead into a common connection line.

6. (Previously Amended) A heat exchanger according to Claim 1, wherein the securing means have joints (5, 7).

7. (Previously Amended) A heat exchanger according to Claim 6, wherein the securing means have two axes of rotation (6, 9) which lie perpendicular to one another.

8. (Previously Amended) A heat exchanger according to Claim 1, wherein the securing means have a first element (3), which is fixedly connected to the heat exchanger block (1), and a second element (4), which is articulately connected to the first element (3), the second element (4) being articulately secured in the insulating vessel.

9. (Previously Amended) In a low-temperature air fractionation plant comprising a principal heat exchanger and at least one fractionation ~~fractuating~~ column, the improvement wherein the principal heat exchanger is a heat exchanger according to Claim 1.

10. (Previously Added) A heat exchanger according to Claim 2, wherein the heat exchanger block (1) is suspended in such a manner that it can move freely above its center of gravity.

11. (Previously Added) A heat exchanger according to Claim 4, comprising at least three heat exchanger blocks.

12. (Previously Added) In a heat exchanger comprising at least one heat exchanger block, an insulating vessel which surrounds the heat exchanger block and securing means for securing the heat exchanger block hanging in the insulating vessel, the improvement wherein

the heat exchanger block (1) is arranged movably in the insulating vessel, the heat exchanger comprises at least two heat exchanger blocks (1), the heat exchanger blocks (1) have feed and/or discharge lines which lead into a common connection line, and the heat exchanger blocks (1) are suspended so that they can move freely above their centers of gravity,

whereby said means for securing permit thermally produced changes in the lengths of said pipes connected to said heat exchange block to be compensated for by movement of said heat exchanger block.

13. (Previously Added) A heat exchanger according to Claim 12, wherein each of said heat exchanger blocks have a lower end, and the lower end of each heat exchanger block (1) can move in at least two spatial directions.

14. (Previously Added) In a heat exchanger comprising at least one heat exchanger block, an insulating vessel which surrounds the heat exchanger block and securing means for securing the heat exchanger block hanging in the insulating vessel, the improvement wherein

the heat exchanger block (1) is arranged movably in the insulating vessel, the heat exchanger comprises at least two heat exchanger blocks (1), the heat exchanger blocks (1) have feed and/or discharge lines which lead into a common connection line, the securing means have joints (5, 7), and the securing means have two axes of rotation (6, 9) which lie perpendicular to one another,

whereby said means for securing permit thermally produced changes in the lengths of said pipes connected to said heat exchange block to be compensated for by movement of said heat exchanger block.

15. (Previously Added) A heat exchanger according to claim 1, wherein said heat exchanger comprises ten heat exchanger blocks arranged in two rows of five blocks each.

16. (Previously Added) A heat exchanger according to claim 1, wherein said heat exchanger comprises eight heat exchanger blocks arranged in two rows of four blocks each.

17. (Previously Added) A heat exchanger according to claim 8, wherein said first element comprises two plates secured to two opposites side of said heat exchanger block and said second element is a triangular plate.